

Postgraduate Diploma

Diagnosis and Treatment of Tumors of the Lower Digestive Tract





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Diagnosis and Treatment of Tumors of the Lower Digestive Tract

Course Modality: Online

Duration: 6 months

Certificate: TECH Technological University

21 ECTS

Teaching Hours: 525 hours

Website: www.techtitute.com/medicine/postgraduate-diploma/postgraduate-diploma-diagnosis-treatment-tumors-lower-digestive-tract

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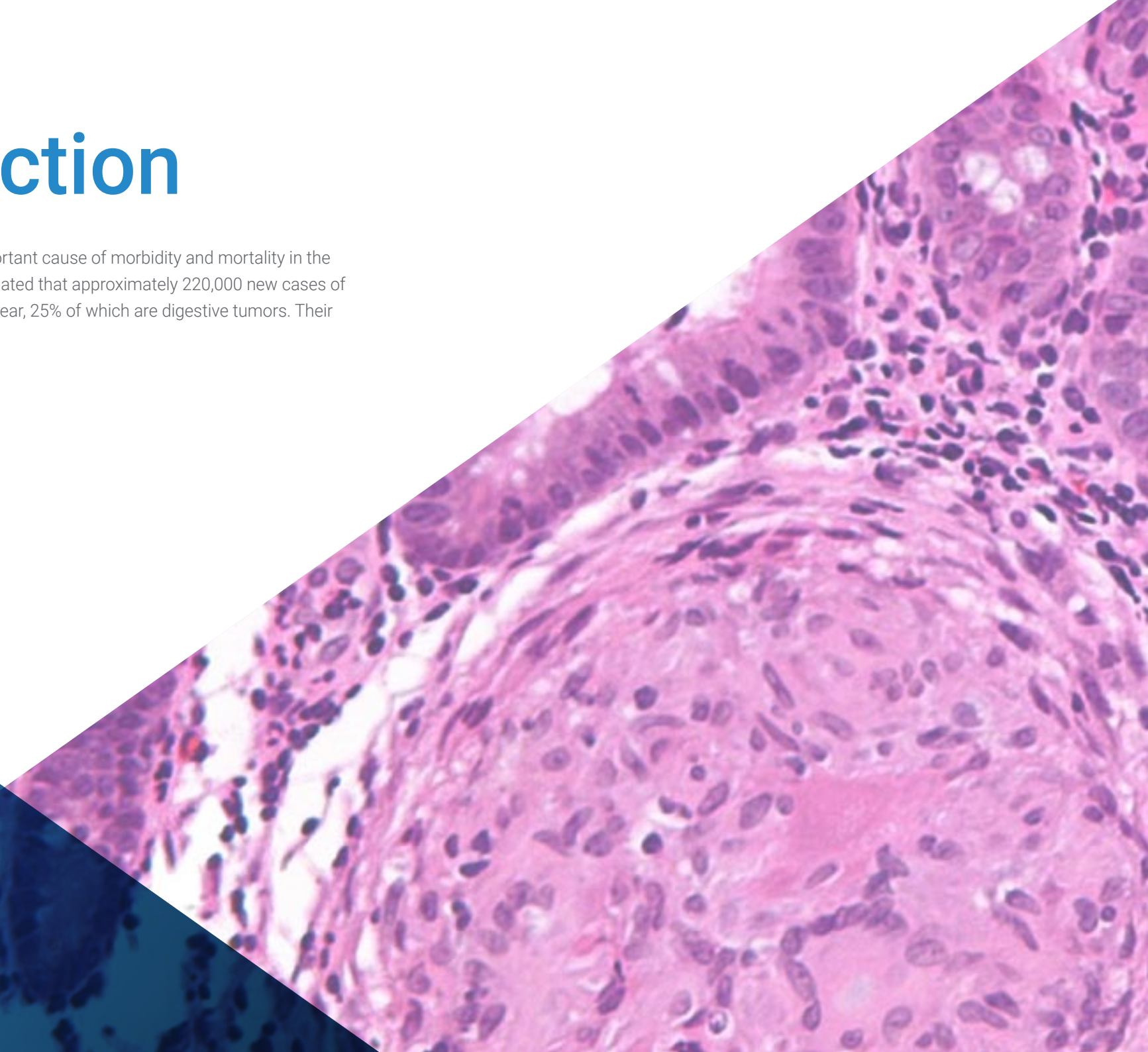
Certificate

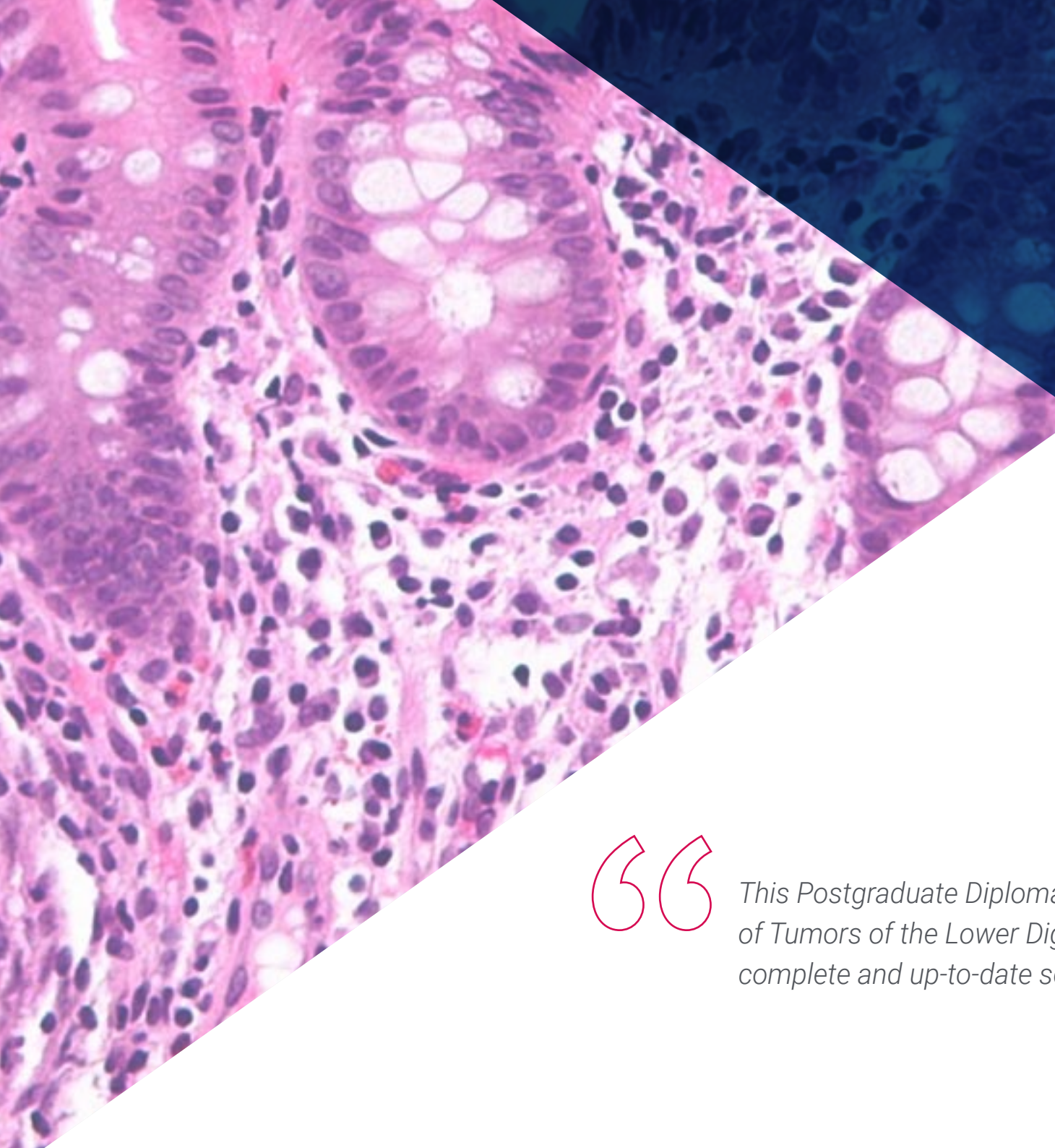
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01

Introduction

Digestive tumors represent an important cause of morbidity and mortality in the population of both sexes. It is estimated that approximately 220,000 new cases of cancer are detected in Spain each year, 25% of which are digestive tumors. Their incidence has varied over the years.





This Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Lower Digestive Tract contains the most complete and up-to-date scientific program on the market”

Whereas a few years ago the survival of metastatic patients was around six months, it has now extended to at least 24 months, as a result of the fact that in recent years there have been many important advances in early detection, diagnosis and treatment procedures, so that at the same time, we are faced with increasing complexity in the management of these tumors.

The continuous improvement and sophistication of imaging methods, the refinement of some surgical techniques, the increased hierarchization of certain pathological findings, the inclusion of molecular biology in clinical practice, the incorporation of personalized medicine, changes in many classical therapeutic approaches, technological advances for the administration of radiotherapy, the incorporation of immunotherapy and new combined modalities, new complications and sequelae of new treatments, are some of the factors that make the care of patients with digestive tumors an increasingly complex activity.



*Increase your competences in the
Diagnosis and Treatment of Tumors
of the Lower Digestive Tract”*

This **Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Lower Digestive Tract** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Clinical cases presented by experts in the different specialties. The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ New developments in the diagnosis and treatment of tumors of the lower gastrointestinal tract
- ♦ Algorithm-based interactive learning system for decision-making in the presented clinical situations
- ♦ With special emphasis on evidence-based medicine and research methodologies in the diagnosis and treatment of tumors of the lower gastrointestinal tract
- ♦ All this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection

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This Postgraduate Diploma may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in the diagnosis and treatment of tumors of the lower gastrointestinal tract, you will obtain a certificate issued by TECH Technological University"

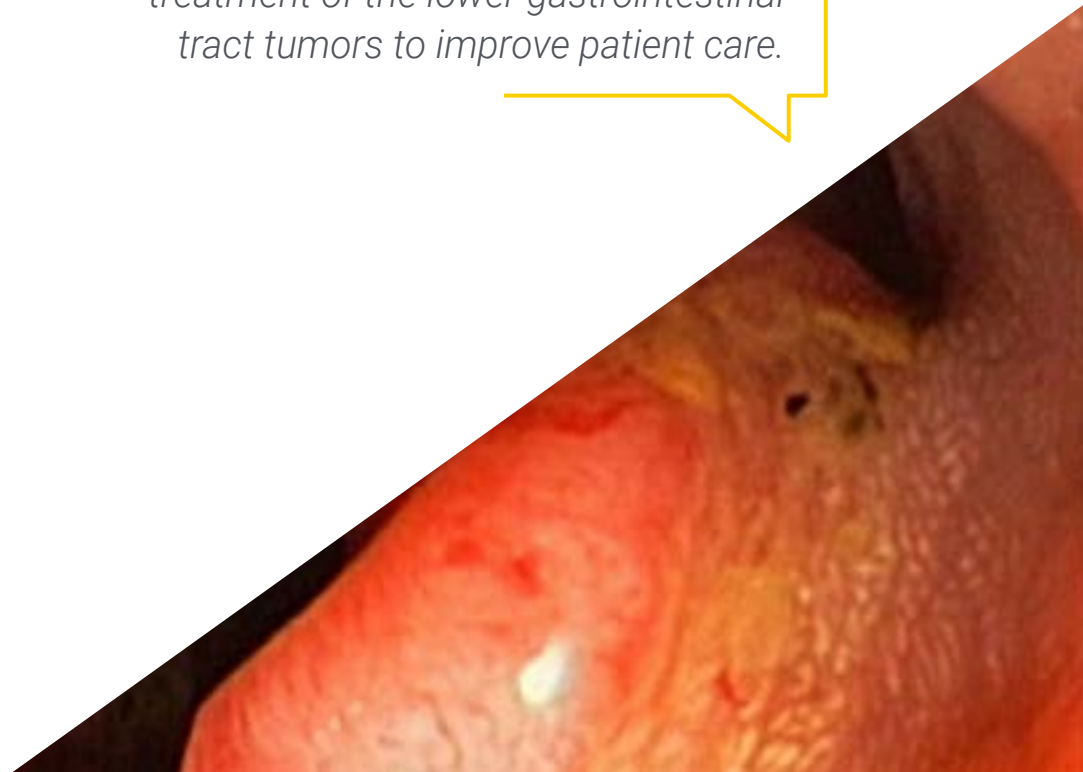
Forming part of the teaching staff is a group of professionals in the world of digestive oncology who bring to this training their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

The multimedia content developed with the latest educational technology will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training program to train in real situations.

This program is designed around Problem Based Learning, whereby the medical must try to solve the different professional practice situations that arise during the course. This will be done with the help of an innovative interactive video system created by renowned experts in the field of diagnosis and treatment of digestive tumors and with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge through this Postgraduate Diploma.

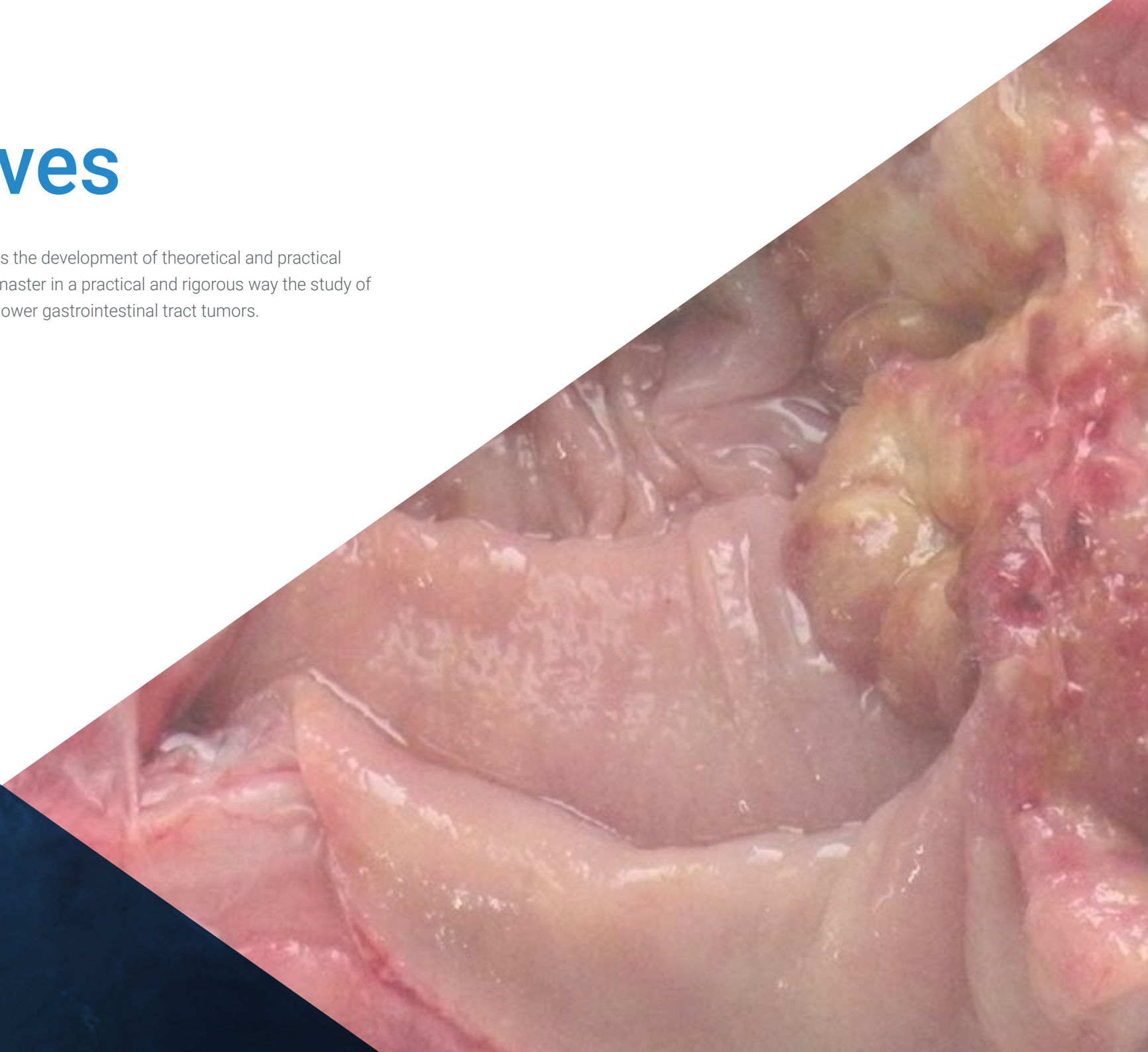
Don't miss the opportunity to update your knowledge in the diagnosis and treatment of the lower gastrointestinal tract tumors to improve patient care.



02

Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a practical and rigorous way the study of the diagnosis and treatment of the lower gastrointestinal tract tumors.





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This refresher program will generate a sense of confidence in medical practice, which will help you grow both personally and professionally”

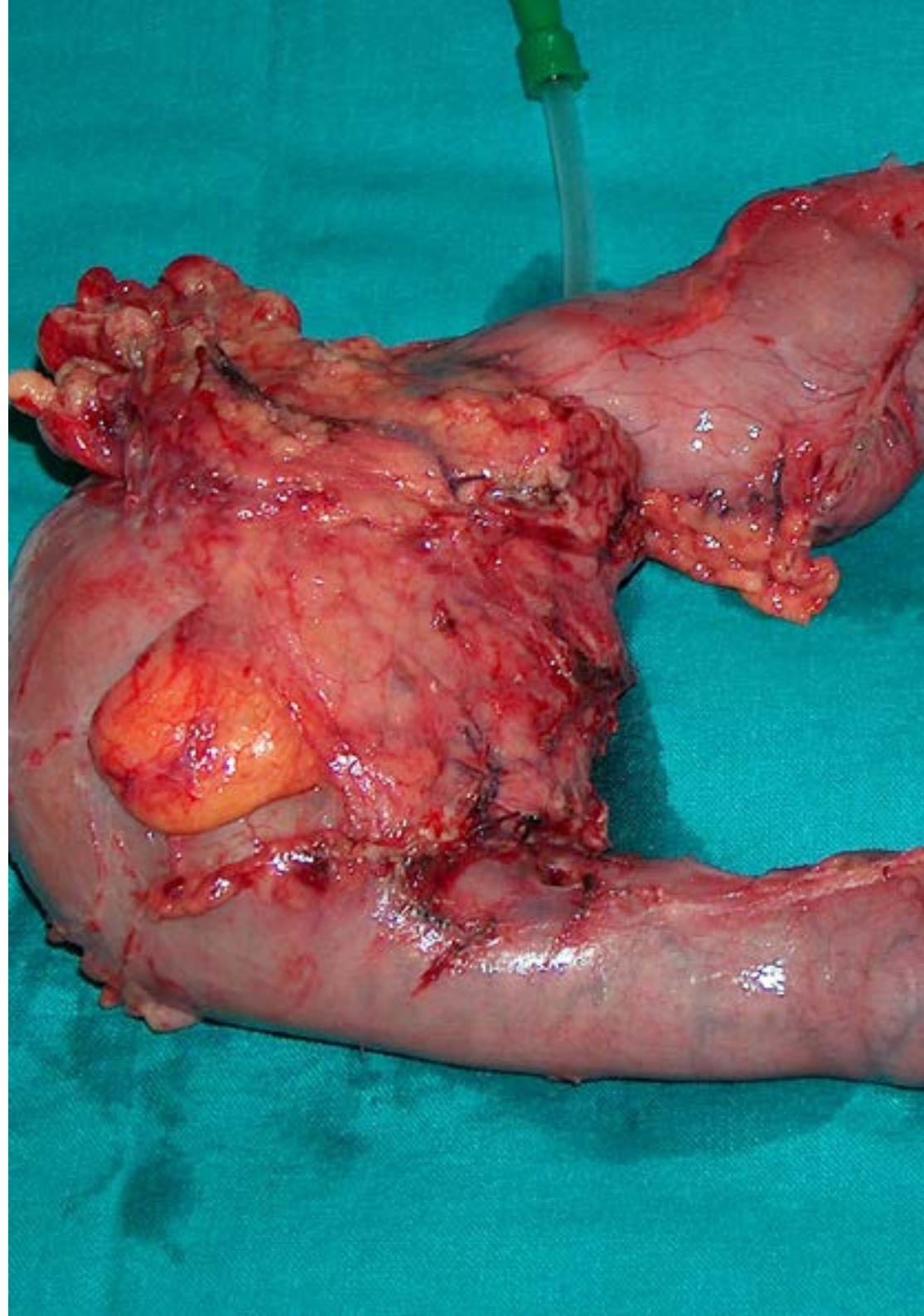


General Objectives

- Create a global and updated vision of the upper gastrointestinal tract and all its aspects, allowing the student to acquire useful knowledge and, at the same time, generate interest in expanding the information and discovering its application in their daily practice
- Provide and expand knowledge on immunotherapy, as an example of a clear scientific advance in translational research, and one of the most promising lines of research in cancer treatment
- Discuss the current landscape of stomach cancer immunotherapy, combinations in clinical development, strategies for dose selection and trial design, clinical pharmacology and regulatory considerations



Seize the opportunity and take the step to get up to date on the latest developments in the diagnosis and treatment of tumors of the lower gastrointestinal tract”





Specific Objectives

- ♦ Learn about the colon and rectal cancer screening program and estimate the population susceptible to being screened in Spain and by autonomous community
- ♦ Analyze the effectiveness of different tests proposed for colon and rectal cancer screening
- ♦ Update knowledge on the molecular biology of colon cancer and its impact on classification and treatment
- ♦ Present and discuss multiple controversies that currently arise in the treatment of colorectal cancer, such as laparoscopic vs. robotic surgery, total excision of the mesorectum or management of liver metastases
- ♦ Update knowledge on adjuvant and neoadjuvant treatment of colon and rectum cancer
- ♦ Present the latest advances in translational research with practical implications in the management of metastatic colon and rectal cancer
- ♦ Learn about advances in personalized management of colon cancer based on the growing understanding of molecular biology
- ♦ Analyze the recent incorporation of immunotherapy in the management of colon and rectal cancer, which will modify the diagnostic and therapeutic approach.

03

Course Management

This program includes highly regarded health professionals in the field of digestive oncology in its teaching staff, who bring the experience of their work to this training.

In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.

Rectal



Cancer



Learn from leading professionals the latest advances in diagnosis and treatment of tumors of the lower gastrointestinal tract"

Management



Dr. Oruezábal Moreno, Mauro Javier

- Head of the medical Oncology Service at La Paz University Hospital since 2017.
- Research Fellow at University of Southampton (2016-present).
- Master's Degree in Bioinformatics and biostatistics UOC-UB (2016-ongoing)
- Master's Degree in bioinformatic analysis by the Pablo de Olavide University (2015-2016)
- Doctor of Medicine from the Complutense University of Madrid. Outstanding Cum Laude Qualification (2002).
- Member of the Spanish Society of Medical Oncology (SEOM) and the Spanish Group of Digestive Tumors (TTD)
- Specialist (MIR) in Medical Oncology, University Hospital San Carlos of Madrid (2000).
- Degree in Medicine and Surgery, University of Navarra (1995).



Dr. Esteban López-Jamar, José Miguel

- Head of the Endoscopy Unit at the San Carlos Clinical University Hospital of Madrid
- PhD in Medicine and Surgery, from the Complutense University of Madrid with Outstanding Award
- Training at the AMC in Amsterdam, the Paoli Calmettes Institute in Marseille and the Horst-Schmidt-Kliniken in Wiesbaden (Germany)
- Member of the SEPD, ACAD, SEED, ESGE
- Honorary Member of the Equatorian Society of Gastroenterology
- Professor and member of the Scientific Advisory Committee of the University Specialization Course in Endoscopic Ultrasonography of the UOC.
- Specialist (MIR) in the Digestive System, San Carlos University Hospital of Madrid



Dr. Loinaz Seguro, Carmelo

- Chief of Section of General and Digestive System Surgery, Doce de Octubre University Hospital, Madrid.
- Degree in Medicine and Surgery, University of Navarra (1985).
- Specialist in General and Digestive System Surgery, Doce de Octubre University Hospital
- Doctor in Medicine and Surgery, Complutense University of Madrid, qualification outstanding cum laude (1991).
- Associate Professor of Health Sciences. Accredited as Full Professor by ANECA (2009)
- Member of the Spanish Association of Surgeons, Spanish Society of Parenteral and Enteral Nutrition, American College of Surgeons, Spanish Society of Transplantation, Spanish Society of Liver Transplantation, European Society of Organ Transplantation, The Transplantation Society (and IRTA section, Intestinal Rehabilitation and Transplant Association), IASGO (International Society of Surgeons, Gastroenterologists and Oncologists), ISDE (International Society of Diseases of the Esophagus)
- Head of General Surgery Unit, Alcorcón University Hospital (2004-2008)
- Master's Degree in Medical Management and Clinical Management, UNED and Escuela de Sanidad-Instituto Carlos III.
- Coordinator of the Humanitarian Collaboration Group of the AEC.
- Committee of Health Cooperation at the Department of Surgery of the UCM.

Professors

Dr. Alvarez Delgado, Alberto

- ♦ Gastroenterology Department
- ♦ Salamanca University Hospital.

Dr. Astudillo González, Aurora

- ♦ Anatomic Pathology Service
- ♦ Associate Professor at the University of Oviedo linked to the Central University Hospital of Asturias.
- ♦ Scientific Director of the Principality of Asturias Biobank.

Dr. Barturren Barroso, Angel

- ♦ Head of the Endoscopy Department
- ♦ Cruces University Hospital. Vizcaya

Dr. Boan Garcia, Jose Francisco

- ♦ Head of the Molecular Imaging Unit
- ♦ Ruber International Hospital from Madrid

Dr. Concha Lopez, Ángel

- ♦ Head of Anatomic - Pathology Department and director of the Biobanc
- ♦ A Coruña University Hospital Complex

Dr. De Lacy, Antonio

- ♦ Head of the General Surgery Services
- ♦ Madrid Clinical Hospital

Dr. Dos Santos Castro, Leonaldson

- ♦ General Surgery
- ♦ INCA (National Cancer Institute), Rio de Janeiro

Dr. Fernández Cebrián, José María

- ♦ Head of the General Surgery Services
- ♦ Fundación Alcorcón University Hospital, Madrid

Dr. Figueroa, Angélica

- ♦ Institute of Biomedical Research A Coruña (INIBIC)
- ♦ Research Group Leader, Epithelial Plasticity and Metastasis

Dr. Galindo, Pablo

- ♦ General Surgery Department
- ♦ University Hospital of Torrejón, Madrid

Dr. García Aguilar, Julio

- ♦ Head of the Coloproctology Surgery Services
- ♦ Memorial Sloan Kettering Cancer Center, New York

Dr. Herráiz Bayod, Maite

- ♦ Gastroenterology Department
- ♦ Head of the Unit for Prevention and High Risk of Digestive Tumors
- ♦ Navarra University Clinic

Dr. Lacasta Muñoa, Adelaida

- ♦ Medical Oncology Service
- ♦ Donostia University Hospital

Dr. Laquente Saez, Berta

- ♦ Medical Oncology Service
- ♦ Catalanian Institute of Oncology

Dr. Limón Mirón, Maria Luisa

- ♦ Medical Oncology Service
- ♦ Virgen del Rocío University Hospital, Seville

Dr. López López, Rafael

- ♦ Head of the Medical Oncology Department
- ♦ Santiago de Compostela University Hospital Complex
- ♦ Translational Medical Oncology Group Health Research Institute

Dr. Martínez de Castro, Eva

- ♦ Medical oncology
- ♦ Marqués de Valdecilla University Hospital



Dr. Martinez Iglesias, Olaia

- ◆ Institute of Biomedical Research A Coruña (INIBIC)
- ◆ Research Group Leader, Epithelial Plasticity and Metastasis

Dr. Manrique, Alejandro

- ◆ HBP Surgery and Abdominal Transplant
- ◆ General Surgery, Digestive System and Abdominal Organ Transplantation Department
- ◆ Doce de Octubre University Hospital, Madrid

Dr. Mendoza Hernandez, Juan Luis

- ◆ Gastroenterology Department
- ◆ San Carlos University Hospital, Madrid

Dr. Navarro Fos, Samuel

- ◆ Anatomic Pathology Department
- ◆ University of Valencia

Dr. Paramio Gonzalez, Jesús

- ◆ CIEMAT Molecular Oncology Unit
- ◆ 12 de Octubre Research Institute of Madrid

Dr. Parra Blanco, Adolfo

- ◆ Gastroenterology Department
- ◆ Nottingham University Hospital

Dr. Perea García, José

- ◆ General Surgery Department
- ◆ Jiménez Díaz Foundation, Madrid

Dr. Pera Román, Miguel

- ♦ Head of the Coloproctology Department
- ♦ Del Mar University Hospital, Barcelona

Dr. Pericay Pijaume, Carles

- ♦ Medical Oncology Service
- ♦ Sabadell hospital, Parc Tauli

Dr. Ramos Zabala, Felipe

- ♦ Gastroenterology Department
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- ♦ Medical Oncology Department
- ♦ La Fe University and Polytechnica Hospital. Valencia

Dr. Rueda Fernández, Daniel

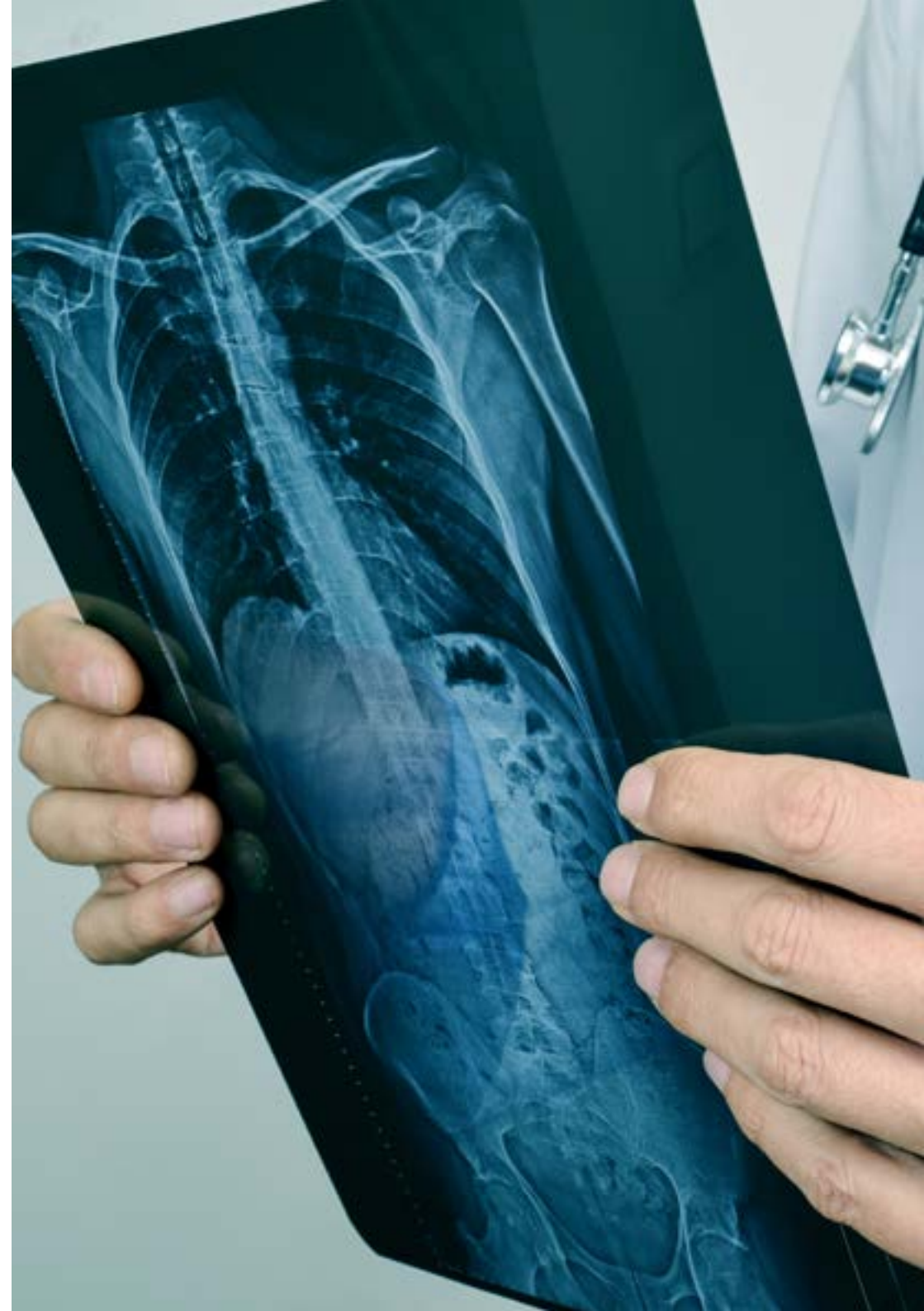
- ♦ Research Unit
- ♦ 12 de Octubre University Hospital of Madrid

Dr. Segura Huerta, Angel Agustin

- ♦ Medical Oncology Department
- ♦ La Fe University and Polytechnica Hospital, Valencia

Dr. Serrablo, Alejandro

- ♦ General Surgery Department
- ♦ Lozano Blesa Hospital, Zaragoza



Dr. Valladares Ayerbes, Manuel

- ♦ UGC Medical Oncology.
- ♦ Virgen del Rocío University Hospital IBIS – Seville

Dr. Velastegui Ordoñez, Alejandro

- ♦ Medical Oncology Service
- ♦ Rey Juan Carlos University Hospital of Madrid

Dr. Vicente, Emilio

- ♦ Director of the General Surgery Services
- ♦ University Hospital Sanchinarro, CIOCC, Madrid



04

Structure and Content

The structure of the contents has been designed by a team of professionals who recognise the implications of training in daily medical praxis, aware of the relevance of current training to treat the patient with oncological problems of the lower digestive tract and are committed to quality teaching using new educational technologies.



Mesocolon

Caudado



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Module 1. Molecular Biology and Translational Oncology

- 1.1. Molecular Mechanisms of Cancer
- 1.2. Tumor Immunology: Basis of Cancer Immunotherapy
- 1.3. Microenvironment Reprogramming in Digestive Tumors
- 1.4. Role of the Biobank in Clinical Research
- 1.5. Understanding the New Technology: Next Generation Sequence (NGS) in Clinical Practice
- 1.6. Liquid Biopsies: Fashion or Future?
- 1.7. Update on Molecular Markers for Treatment Decisions in Gastrointestinal Malignancies
- 1.8. Do Molecular and Immunological Classifications Have Clinical Implications in 2017?

Module 2. Tumors of the Lower Gastrointestinal Tract

- 2.1. Colorectal Cancer
 - 2.1.1. Colorectal Cancer. Epidemiology, Etiology and Incidence
 - 2.1.2. Colon and Rectum Cancer Early Detection Program
 - 2.1.3. Molecular Classification of Colon Cancer: New Insights
 - 2.1.4. Familial Forms of Colorectal Cancer (Polyposis-Associated and Nonpolyposis-Associated)
 - 2.1.5. Cancer Associated with Chronic Inflammatory Bowel Diseases and Treatments Received
 - 2.1.6. Diagnosis and Endoscopic Management of Polyps and Advanced Lesions
 - 2.1.7. Clinical Impact of FDG-PET/CT in Colorectal Cancer Staging
 - 2.1.8. Role of Endoscopic Ultrasonography (EUS) and Magnetic Resonance Imaging (MRI) in the Staging of Rectal Cancer
 - 2.1.9. Laparoscopic vs Robotic Surgery for Colon Cancer
 - 2.1.10. Surgical Management of Familial Nonpolyposis Colon Cancer
 - 2.1.11. Surgery for Familial Adenomatous Polyposis
 - 2.1.12. Current Adjuvant Treatment of Colon Cancer and Proposals for the Future in Adjuvant Treatment of Colon Cancer





- 2.1.13. Total Excision of the Mesorectum: Open, Laparoscopic and Robotic
- 2.1.14. Transanal Approach to Rectal Tumors
- 2.1.15. Neoadjuvant Treatment in Rectal Cancer
- 2.1.16. Postoperative Treatment After Neoadjuvant and Radical Surgery
- 2.1.17. Observe and Wait for Low Rectal Cancers After Neoadjuvant Therapy With Clinical Complete Response
- 2.1.18. Invasive Pelvic Tumors: Pelvic Exanteration
- 2.1.19. Therapeutic Advances in Colon and Rectal Cancer. Improving Patient Survival on a Daily Basis
- 2.1.20. What is the Best Treatment Option After Second-Line Therapy in Advanced Colorectal Cancer?
- 2.1.21. Acquired Resistance to EGFR Antibodies: How to Handle It?
- 2.1.22. Immunologic Therapy in Metastatic Colorectal Cancer
- 2.1.23. Rectal Cancer With Synchronous and Resectable Liver Metastases
- 2.1.24. Management of Colorectal Cancer Liver Metastases
- 2.1.25. Total Mesocolon Excision: When, How, Why
- 2.1.26. Role of Endoscopy in the Management of Advanced Colorectal Cancer

“

A unique, key, and decisive training experience to boost your professional development”

05

Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: *Re-learning*.

This teaching system is used in the most prestigious medical schools in the world, and major publications such as the *New England Journal of Medicine* have considered it to be one of the most effective.



“

Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in professional medical practice.

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Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.

The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

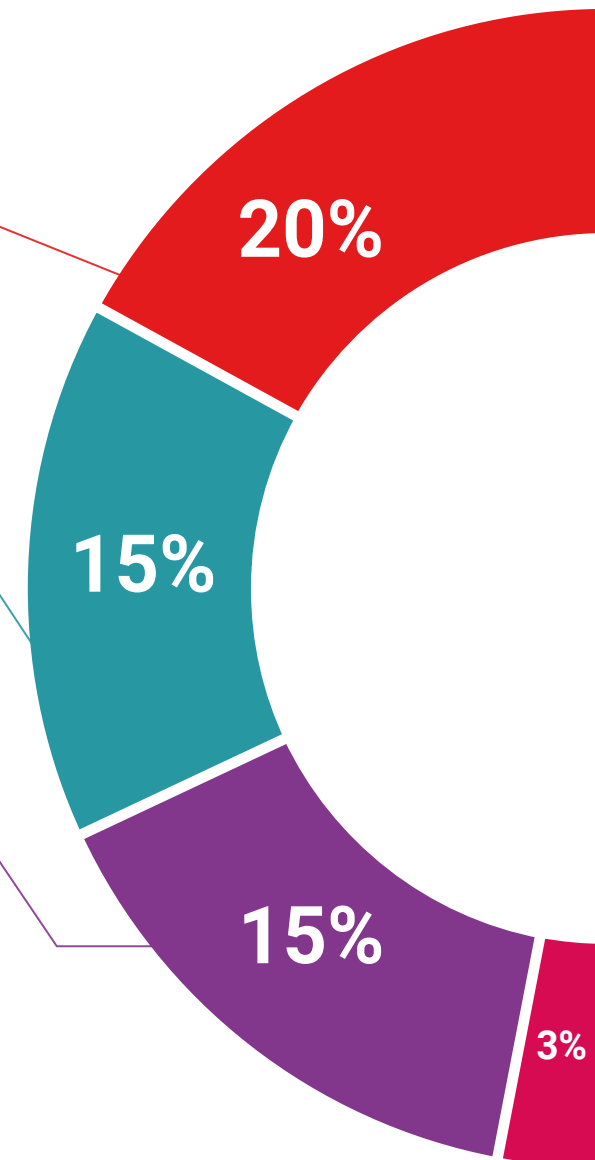
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.



Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06

Certificate

The **Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Lower Digestive Tract** guarantees you, as well as the most rigorous and updated training, access to a diploma issued by **TECH Technological University**.



“

Successfully complete this training and receive your university degree without travel or laborious paperwork”

This **Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Lower Digestive Tract** contains the most complete and up-to-date scientific program on the market.

After passing the assessments, students receive their Postgraduate Diploma issued by **TECH Technological University** posted by certified mail.

The certificate issued by **TECH Technological University** will specify the qualification obtained through the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Lower Digestive Tract**

ECTS 21

Official Number of Hours: **525 hours**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
virtual classroom

tech technological
university

Postgraduate Diploma
Diagnosis and Treatment
of Tumors of the Lower
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Course Modality: **Online**

Duration: **6 months**

Certificate: **TECH Technological University**

21 ECTS

Teaching Hours: **525 hours**

Postgraduate Diploma

Diagnosis and Treatment of Tumors of the Lower Digestive Tract

